

DETAILED ESTIMATE

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads and Drains at Gupta Vidyasagar Layout and Surrounding Area Roads in Ward No 06 Thanisandra

						Estimation Cost.Rs	10000000.00	
No	Description of work	Mesurement				Qty	Rate	Amount
		Unit	No.	L	B			
	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 & 136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80							
	New Drain							
	Vidyasagar Layout Cross Road							
	Left Side M H N Islamic English school	Cum	1	73.00	1.05	1.05	80.48	
	Cross Road -02	Cum	1	209.00	1.05	1.05	230.42	
	Cross Road	Cum	2	139.70	1.20	1.05	352.04	
	Cross Road	Cum	1	33.00	1.05	1.05	36.38	
	New CC Culvert							
	Cross Road	Cum	1	6.00	1.50	1.10	9.90	
	New SSM Culvert							
	Vidyasagar Layout Cross Road							
	Left Side M H N Islamic English school	Cum	1	5.70	1.20	0.75	5.13	
	Cross Road -02	Cum	1	5.50	1.20	0.75	4.95	
	Cross Road -03	Cum	1	5.60	1.50	0.75	6.30	
	Cross Road	Cum	1	4.50	1.20	0.75	4.05	
	Basic rate	130.00						
	Area weightage 6%	7.80						
	5Km lead & Lift= 57+(2*1.28*5)	69.80						
	Sub Total	207.60						
	Total					729.66	207.60	151477.73
2	KSRRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13							
	For SSM Culvert	Cum						
	Vidyasagar Layout Cross Road							
	Left Side M H N Islamic English school	Cum	2	5.70	0.45	0.50	2.57	
	Cross Road -02	Cum	2	5.50	0.45	0.50	2.48	
	Cross Road -03	Cum	2	5.60	0.50	0.50	2.80	
	Cross Road	Cum	2	4.50	0.45	0.50	2.03	
	Basic rate	4596.00						
	Area weightage 6%	275.76						
	Sub Total	4871.76						
	Total					9.87	4871.76	48059.91

Description of work		Mesurement				Qty	Rate	Amount
	Unit	No.	L	B	D			
KSRRB M2100 PCC 1 KSRRB M2100-10. Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications.MORTH Specification No. 2100 Pg no:222 Item no:27.18								
New Drain								
Vidyasagar Layout Cross Road								
Left Side M H N Islamic English school	Cum	1	73.00	1.05	0.15	11.50		
Cross Road -02	Cum	1	209.00	1.05	0.15	32.92		
Cross Road	Cum	2	139.70	1.20	0.15	50.29		
Cross Road	Cum	1	33.00	1.05	0.15	5.20		
For New CC Culvert								
Cross Road	Cum	1	6.00	1.50	0.15	1.35		
New SSM Culvert								
Vidyasagar Layout Cross Road								
Left Side M H N Islamic English school	Cum	1	5.70	1.20	0.15	1.03		
Cross Road -02	Cum	1	5.50	1.20	0.15	0.99		
Cross Road -03	Cum	1	5.60	1.50	0.15	1.26		
Cross Road	Cum	1	4.50	1.20	0.15	0.81		
For Copping Concrete								
Vidyasagar Layout Cross Road								
Left Side M H N Islamic English school	Cum	2	5.70	0.45	0.10	0.51		
Cross Road -02	Cum	2	5.50	0.45	0.10	0.50		
Cross Road -03	Cum	2	5.60	0.50	0.10	0.56		
Cross Road	Cum	2	4.50	0.45	0.10	0.41		
For CC Road								
Vidyasagar Layout Cross								
Left Side M H N Islamic English school	Cum	1	73.00	4.70	0.15	51.47		
Cross Road -02	Cum	1	209.00	5.20	0.15	163.02		
Cross Road	Cum	1	139.70	4.10	0.15	85.92		
Cross Road	Cum	1	33.00	6.00	0.15	29.70		
Basic rate	5115.00							
Area weightage 6%	306.90							
Sub Total	5421.90							
Total						437.41	5421.90	2371614.97
KSRRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
For SSM Culvert Vent								
Vidyasagar Layout Cross Road								

Description of work	Mesurement					Qty	Rate	Amount
	Unit	No.	L	B	D			
	tonne					13.83		
For Culvert	Cum	From item No 05				3.60		
	kg	Steel assumed 90Kg/Cum of Concrete				324.00		
	tonne					0.32		
Basic rate	61365.00	ISSUE RATE						
Area weightage 6%	3681.90	01-01-2020 CHGT AT 21/7/2020						
Sub Total	65046.90							
Total						14.15	65046.90	920710.90

7 Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete. (Data Rate)

Vidyasagar Layout Cross Road								
Left Side M H N Islamic English school	Sqm	1	73.00	0.75		54.75		
Cross Road -02	Sqm	1	209.00	0.75		156.75		
Cross Road	Sqm	2	139.70	0.90		251.46		
Cross Road	Sqm	1	33.00	0.75		24.75		
Data Rate	2337.00							
Total						487.71	2337.00	1139778.27

8 Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incha

New Culvert								
Vidyasagar Layout Cross Road								
Left Side M H N Islamic English school	Sqm	1	5.70	1.20		6.84		
Cross Road -02	Sqm	1	5.50	1.20		6.60		
Cross Road -03	Sqm	1	5.60	1.50		8.40		
Cross Road	Sqm	1	4.50	1.20		5.40		
	Sqm	1	6.00	1.20		7.20		
Data rate	5418.00							
Total						34.44	5418.00	186595.92

9 KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)

For New CC Road								
Vidyasagar Layout Cross								
Left Side M H N Islamic English school	Cum	1	73.00	4.70	0.45	154.40		
Cross Road -02	Cum	1	209.00	5.20	0.45	489.06		
Cross Road	Cum	1	139.70	4.10	0.45	257.75		
Cross Road	Cum	1	33.00	6.00	0.45	89.10		
Basic rate	41.00							
Area weightage 6%	2.46							
5Km lead= (2*1.28*5)	12.80							
Sub Total	56.26							

No	Description of work	Measurement				Qty	Rate	Amount
		Unit	No.	L	B			

Total						990.30	56.26	55714.36
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KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occurring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)

Vidyasagar Layout Cross Road								
Left Side M H N Islamic	Sqm	1	73.00	4.70		343.10		
Cross Road -02	Sqm	1	209.00	5.20		1086.80		
Cross Road	Sqm	1	139.70	4.10		572.77		
Cross Road	Sqm	1	33.00	6.00		198.00		
Basic rate	6.00							
Area weightage 6%	0.36							
Sub Total	6.36							
Total						2200.67	6.36	13996.26

Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)

New Road								
Vidyasagar Layout Cross Road								
Left Side M H N Islamic	Cum	1	73.00	4.70	0.15	51.47		
Cross Road -02	Cum	1	209.00	5.20	0.15	163.02		
Cross Road	Cum	1	139.70	4.10	0.15	85.92		
Cross Road	Cum	1	33.00	6.00	0.15	29.70		
Basic rate	1882.00							
Area weightage 6%	112.92							
Sub Total	1994.92							
Total						330.10	1994.92	658524.09

Cement concrete pavement.Construction of un-reinforced plain cement concrete for pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008.mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermeable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire charges of machineries,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1

Vidyasagar Layout Cross Road								
Left Side M H N Islamic English school	Cum	1	73.00	4.70	0.15	51.47		
Cross Road -02	Cum	1	209.00	5.20	0.15	163.02		
Cross Road	Cum	1	139.70	4.10	0.15	85.92		

No	Description of work	Unit				Qty	Rate	Amount
		Unit	N	B	D			
	Cross Road	Cum	1	33.00	6.00	0.15	29.70	
	Basic rate	4916.00						
	Area weightage 6%	294.96						
	sub Total	5210.96						
	Total					330.10	5210.96	1720140.50
Grand Total								8927032.46
GST Charges (12% of estimated cost)								1071243.90
Miscellaneous and rounding								1723.64
Total Amount								10000000.00
RUPEES ONE CRORE ONLY								

CERTIFICATE:

- 1) The work spot has been inspected and found to be necessary
- 2) The work spot comes under B.B.M.P
- 3) The provisions made in the estimate are necessary and minimum
- 4) The estimate is based on C.S.R of 2018-2019, Issue rates and Data Rates.

[Signature]

Assistant Engineer
BBMP

[Signature]

Assistant Executive Engineer
BBMP

[Signature]

Executive Engineer
BBMP

ADMINISTRATIVE APPROVAL

Accorded For Rs. 100.00 Lakh only

Head of A/c. P 3075,

Div. Ref. No. 24/20-21 Date 25-8-2020

[Signature]
AE

[Signature]
EE(BTP)

Technically sanctioned for Rs. 100.00 LAKH

Rs in Words HUNDRED LAKH ONLY

Under P 3075

Job Code No. 006-21-000012

Registered as SE(Y)/TS/ 13 / 20-21

to conditions contained in enclosed memo

No. 13 / 20-21 Dated: 26/8/2020

[Signature]
26/8/2020